

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006863

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01Q1/32 H01Q21/30		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/80366 A (RECEPTEC L L C) 25 October 2001 (2001-10-25) cited in the application	1
X	DE 101 33 295 A (FUBA AUTOMOTIVE GMBH & CO KG) 23 January 2003 (2003-01-23) cited in the application page 41; claims 3,5; figures 2a,2b	1-12
X	US 6 441 792 B1 (SCHAFFNER JAMES H ET AL) 27 August 2002 (2002-08-27) abstract; figures 3,4 column 5, line 20 - line 34 column 6, line 19 - line 22 column 8, line 6 - line 10	1-11
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*Z* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center;">14 October 2004</div>	Date of mailing of the international search report <div style="text-align: center;">22/10/2004</div>	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <div style="text-align: center;">Jäschke, H</div>	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 2002/175879 A1 (FRANTZIS PANAYIOTIS ET AL) 28 November 2002 (2002-11-28) abstract; figures 18,19 paragraphs '0063!, '0064!	1-6,8-12
X	DE 101 44 399 A (WEBASTO VEHICLE SYS INT GMBH) 3 April 2003 (2003-04-03) paragraphs '0001!, '0012!, '0013!, '0015!; figures 1,2	1,5-9
A	KRONBERGER R P ET AL: "Array antenna principle applied to modern car antennas for mobile communication" ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM, 1998. IEEE ATLANTA, GA, USA 21-26 JUNE 1998, NEW YORK, NY, USA, IEEE, US, 21 June 1998 (1998-06-21), pages 2224-2227, XP010292169 ISBN: 0-7803-4478-2 Abschnitt 4; Abbildung 7	1-7
P,X	EP 1 363 352 A (ALPS ELECTRIC CO LTD) 19 November 2003 (2003-11-19) abstract; figures 3,4 paragraph '0022!	1,5-9
P,X	TIEZZI F; VACCARO S; GRZEGORCZYK T; MOSIG J R: "Design of multiband multibeam conformal antennas for multimedia mobile satellite receivers" PROCEEDINGS OF THE FIRST INTERNATIONAL CONFERENCE ON ADVANCED SATELLITE MOBILE SYSTEMS - ASMS 2003, EUR. SPACE AGENCY, FRASCATI, ITALY, 10 July 2003 (2003-07-10), pages 1-9, XP009037508 NOORDWIJK, NETHERLANDS Abschnitte 1,2; Abbildung 1	1,5-9
E	DE 103 04 911 A (LINDENMEIER HEINZ) 19 August 2004 (2004-08-19) abstract; figures 4,5 paragraph '0008!	1-12

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Information on patent family members

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